

# SPECIAL PROVISIONS



**City of Surprise  
Community Development Block Grant  
2014/2015 B-14-MC-04-0514**

**ROADWAY RECONSTRUCTION  
SUNNY LANE & DESERT SAGE DRIVE  
BETWEEN  
SANTA FE DRIVE AND PARADISE LANE**



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ROADWAY RECONSTRUCTION  
**SUNNY LANE & DESERT SAGE DRIVE**  
SANTA FE DRIVE TO PARADISE LANE  
CDBG 2014/2015 B-14-MC-04-0514

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## **PART A: SCOPE OF WORK**

### **1. PROPOSED WORK**

This project is located in the City of Surprise, Sunny Lane and Desert Sage Drive, between Santa Fe Drive and Paradise Lane. This project is funded by Community Development Block Grant (CDBG). Therefore, Davis Bacon wages shall apply.

The work consists of reconstructing the existing roadway by reconstructing the existing roadway pavement section. Short segments of negative slope curb and gutter will be replaced to allow positive flow throughout the street. Short segments of sidewalk will be replaced. Sidewalk ramps will be retrofitted to meet ADA compliance. Driveways will remain in place. The project also includes adjustment of manholes and valves to propose grades.

The work embraced herein shall be performed in accordance with the requirements of the following separate documents except as modified in these Special Provisions or on the Contract Plans. If a bid item is identified by more than one Standard Specification, the following is listed in priority.

City of Surprise Design Engineering Standards (Feb 2008, Revised August 2012)

Maricopa County Department of Transportation Supplement to the Maricopa Association of Governments' Uniform Standard Specifications (January 2014)

Maricopa Association of Governments "Uniform Standard Specifications for Public Works Construction" (January 2015)

Maricopa Association of Governments "Uniform Standard Details for Public Works Construction", (2015 Edition)

Manual on Uniform Traffic Control Devices for Streets and Highways (2009 Edition) and Arizona Supplement to the 2009 Edition (January, 2012)

All other City of Surprise Department policies and procedures where applicable.

The above Items of work along with the construction requirements are adequately described and defined in the Uniform Standard Specifications for Public Works Construction sponsored and distributed by the Maricopa Association of Governments (MAG) along with the MAG Uniform Standard Details, Maricopa County Department of Transportation (MCDOT) Supplement, and the City of Surprise Supplements thereto, latest revisions, or within these special provisions. In the event of conflict, the City of Surprise Supplements will prevail.

The information written into these special provisions will:

Describe any special or unusual conditions.

Explain details of the work not covered in the MAG Specifications and Details or the City of Surprise supplements thereto.

Relate certain work to specific bid Items or payment quantities.

Contain the specifications and/or requirements of utility companies affected or included within the drawings and specifications of this project.

General construction notes for City of Surprise Public Works projects are included in the plan set and shall be representative, unless specifically noted otherwise, to all plan sheets.

## **PART B: GENERAL INFORMATION**

### **1.SALES AND USE TAXES**

The Contractor shall not include sales or use taxes on certain materials and equipment to be installed on this project as described in Arizona Revised Statutes 42-1316 and 42-1409.

The Contractor shall furnish the City with a list of suppliers including materials and equipment furnished by each, which are applicable to this exemption.

### **2.PRECONSTRUCTION CONFERENCE/WEEKLY MEETINGS**

Preconstruction Conference: The Contractor and all subcontractors shall attend a preconstruction conference meeting at a time and location designated by the City. The Contractor shall be prepared and ready to present to the City all required schedules, plans, etc., as described elsewhere in these special provisions and within the MAG Standard Specifications.

Weekly Meetings: The Contractor shall plan for and attend weekly meetings with the City at a location and designated time determined by the City. The Contractor shall include in the construction schedule adequate time for weekly construction progress meetings.

Contractor shall submit a 2-week schedule at each meeting and prepare and distribute meeting minutes within 48 hours following the meeting.

Contract Documents: Approved drawings, data, mixes and certificates as they are returned to the Contractor will become a portion of the Contract Documents.

### **3.PUBLIC NOTIFICATION**

Unless otherwise directed by the City, the Contractor shall notify all residents and businesses located within the project by handbill or door-hanger 2 weeks prior to commencement of the work phase. The handbill shall include the Contractor's phone number, and alternate work day schedule in case of delay due to weather. The Contractor shall re-notify all areas where work was not performed as scheduled. Door-hangers shall be bright yellow with red lettering and shall be 3 to 5 inches wide by 10 to 12 inches long. Door-hangers shall be pre-cut to be readily secured to doorknobs and pulls, so that they cannot be inadvertently detached or blown off. Any costs associated with notification or re-notification shall be considered incidental to the project.

Roadway full closures will not be allowed. Contractor shall maintain one lane of traffic open at all the times. Parking will not be allowed on Sunny Lane. Parking shall be maintained on one side of the roadway for Desert Sage Drive. Closures to residential driveways shall be approved by the Engineer. If residential driveway closure is approved by the Engineer, the contractor shall coordinate directly with the property owners the time and the duration the driveway access will be restricted.

The Contractor shall provide black-on-orange pre-construction advisory signs to be placed on commuter streets to be serviced, two full calendar weeks prior to start of the project. The signs shall state that a roadway reconstruction project is to take place, the planned dates of start and finish, and shall state that an alternate route of travel is suggested. Sign dimensions may vary according to application and will be determined by the City. This provision is for use on streets where handbill notification is not practical. This requirement is not a separate pay Item.

Contractor to coordinate with the City Engineer or their Representative for Public Notification Guidelines.

#### **4.CONSTRUCTION PRACTICE**

All construction practices and procedures shall conform to the Contract Works Hours and Safety Standards Act, (US Stat. 96, 40 USC 327) the latest revisions shall prevail.

#### **5.INSPECTION**

Inspectors may be stationed on the work to report to the City or his Designee as to the progress of the work, the manner in which it is being performed, and also to report whenever it appears that material furnished or work performed by the Contractor fails to fulfill the requirements of the specifications and contract. The Inspector may direct the attention of the Contractor to such failure or infringement but such inspection shall not relieve the Contractor from any obligation to furnish acceptable materials or to provide completed construction that is satisfactory in every particular.

In case of any dispute arising between the Inspector and the Contractor as to material furnished or the manner of performing the work, the Inspector shall have the authority to reject materials or suspend the work until the question and issue can be referred to and decided by the City. Inspectors are not authorized to revoke, alter, enlarge, relax, or release any requirements of the specifications. Inspectors shall in no case act as foremen or perform other duties for the Contractor or interfere with the management of the work by the Contractor.

Inspection or supervision by the City or Designee shall not be considered as direct control of the individual workman and his work. The direct control shall be solely the responsibility of the Contractor.

#### **6.WORKMANSHIP**

Where not more specifically described, workmanship shall conform to all of the methods and operations of best standards and accepted practices of the trade or trades involved and shall include all Items of fabrication, construction or installation regularly furnished or required for completion.

All work shall be executed by tradesmen skilled in their respective lines of work.

When completed, all work shall have been durably and substantially built and shall present a neat, workmanlike appearance.

## **7.LIMITS OF WORK**

The Contractor in cooperation with the City's Inspector shall verify the boundaries of the work prior to the start of construction. Upon starting construction, the Contractor shall be responsible for replacing all missing, removed or damaged boundary delineating materials, such as walls, fences, etc. Boundaries of work are hereby established as the furthest line distant left or right of the construction centerline as existing right of way, new right of way, drainage easement or temporary construction easement as shown on the plans. Once construction activities have commenced, no disturbance of the existing ground beyond such delineated line shall take place. Intrusion outside of the limits by the Contractor will be penalized \$100 per square yard. Any aggregated amount shall be deducted from the Contractor's final payment.

## **8.PLANS AND SHOP DRAWINGS**

Plans and Shop drawings shall conform to Section 105.2 of the MAG Standard Specifications except as modified as follows:

The Contractor shall furnish to the City of Surprise's Construction Coordinator, product data, material certificates, mix designs and shop drawings in sufficient detail to show complete compliance with all specified requirements.

### **Shop Drawings:**

- Sequence of Construction details
- Traffic control plans-haul routes

Shop drawings shall include the name of the project, project number, date prepared, name of the Preparer, Contractor, and Subcontractor, if applicable. All dimensions and identification of products and materials included, along with notation of any coordination requirements and established field dimensions/measurements/verifications shall be clearly shown or noted.

Drawings of minor or incidental fabricated material and/or equipment may not be required by the City of Surprise. The Contractor shall furnish the City tabulated lists of such fabrications, showing the names of the manufacturers and catalog numbers, together with samples of general data as may be required to permit determination by the City as to their acceptability for incorporation into the work.

### **Samples:**

- Aggregate base course



- Asphalt concrete

Samples shall be representative of the materials to be incorporated into the project and submitted in sufficient quantity to permit evaluation and/or comparison.

#### **Distribution and Review:**

The contractor shall anticipate and schedule for a two week review period by the City of Surprise and/or its designee during which time will either approve, disapprove, or request modifications. The latter two will require re-submittal of the material and a subsequent additional review period. This process shall be repeated until all submitted materials have been approved.

Shop drawings shall be on sheets in standard size increments between 8 1/2" x 11" and 11" x 17" or 24" x 36". All drawings shall indicate the name of the job, the City's job number, date, names of the Contractor, Subcontractor and Preparer, and the date of approval by the Contractor. All other data, certificates or mix design reports shall be presented on 8 1/2" x 11" format, or as provided by the Supplier/Manufacturer. All submittals shall be legible as determined by the City Engineer or their Representative.

Five (5) Contractor approved copies along with a letter of transmittal shall be delivered to the City's Construction Coordinator. The Contractor shall first review all submitted data for compliance with specification and job requirements. Any Contractor comments, recommendations, etc. shall be clearly noted on the submitted data.

If the submittal is acceptable, three (3) copies will be stamped approved, dated, initialed by the Reviewer, and returned to the Contractor.

If the submittal requires corrections or is rejected, three (3) copies along with an explanation of the outstanding concerns will be returned to the Contractor for revision and resubmittal as described above.

Re-submittal of any required corrections shall be made within ten working days.

#### **Contract Documents:**

Approved drawings, data, mixes and certificates as they are returned to the Contractor will become a portion of the Contract Documents.

## **9. COOPERATION WITH UTILITIES**

Cooperation of Utilities shall conform to Section 105.6 of the MAG Standard Specifications except as modified as follows:

Utility locations shown on the plans are approximate. The contractor shall be responsible for identifying all underground utility locations where construction occurs. The contractor shall notify Blue Stake (602-263-1100) at least two (2) working days prior to beginning construction for field location of existing utilities. Should a utility be hit during construction activities, the contractor shall contact Blue Stake and the utility company immediately.

The contractor shall exercise special care and shall follow the utility company's procedures while working near high pressure gas lines or high voltage overhead or underground electric facilities.

The locations of existing underground utilities have been shown on the plans to the best of the Design Engineer's knowledge; however, it shall be the Contractor's responsibility to field verify all utility locations and to coordinate in a timely manner with the pertinent utility companies so that any obstructing utility installation may be adjusted without delay to the Contractor's project schedule. Contractor shall adequately protect and maintain all existing utilities. Any utility, whether shown or not, damaged due to construction shall be repaired immediately at the contractors expense.

In addition, the City of Surprise shall not consider additional compensation requests from the Contractor to perform any potholing, utility company coordination, etc. needed to locate/verify utility location, to adjust contract work items as necessary to avoid utility line conflict, to cooperate with utilities in adjusting schedule as needed to allow for utility company work, relocations, etc.

The following utility companies are known to have facilities in the area of this project. The appropriate individuals to contact and their telephone numbers are listed for the Contractor's convenience:

<b>Utility Provider</b>	<b>Contact Person</b>	<b>Phone Number</b>	<b>Utility Type</b>
Arizona Public Service (APS)	Mr. Ron Gandara	(602) 371-7546	Underground & overhead power.
City of El Mirage (COEL)	Mr. Chris Hauser	(602) 291-6894	Water
City of Surprise	Mr. Suneel Garg	(623) 222-6130	Water and sewer
CenturyLink	Eric Hitchcock	(602) 630-5474	Underground & overhead telecommunications
Cox Communication	Randy Sims	(623) 328-4058	Telecommunications
Southwest Gas	Yvonne Aguirre	(602) 484-5338	Gas line

## **10. COMMENCEMENT, PROSECUTION AND PROGRESS**

Commencement, Prosecution and Progress shall conform to Section 108.2 of the MAG Standard Specifications and MCDOT Supplement except as modified as follows:

The Contractor shall perform, with his own organization, work amounting to not less than 50% of this contract.

## **11. CONSTRUCTION SCHEDULE**

Construction Schedule shall conform to Section 108.4 of the MAG Standard Specifications except as modified as follows:

The Contractor shall furnish the City a construction schedule for review. The City's review of the Contractor's schedule is for the purposes of 1) the City's staffing the project as may be required; 2) to insure general compliance with the contract documents as it relates to the completion of the work; and 3) to monitor and evaluate the construction status for purposes of approving progress payments. In the event the schedule does not contain sufficient information to meet the above purpose, as determined by the City, the Contractor shall resubmit a new schedule with the additional information requested by the City. The construction schedule shall not be changed without the written consent of the City. The orderly procedure of all work to be performed shall be the responsibility of the Contractor.

The schedule shall identify the work to be performed, including the location and duration of planned activities. Submittals shall be made a minimum of seven days prior to the planned work to allow sufficient time for the City to review and schedule any necessary inspections.

The Contractor shall provide weekly updates to the construction schedule for review with the Construction Coordinator or duly authorized representative. Failure to provide such weekly updates will result in retention of monthly progress payments until the schedule is updated.

Review of a submitted schedule by the City shall in no way be construed as an affirmation or admission that the schedule is reasonable or workable which responsibilities remain the obligations of the Contractor. When the schedule shows a completion prior to the contract completion date, this extra time between the contract completion date and the scheduled completion date (float), may be used by the City without additional compensation to the Contractor. The City shall not be liable to the Contractor for any damages for delay if the Contractor completes the work prior to the expiration of the original Contract completion date or as modified by approved change orders, if any.

## **12. LIMITS OF OPERATIONS**

Section 108.5, Limitations of Operations of the MAG Standard Specifications are modified as follows:

The project may be sequenced as the Contractor desires, subject to review by the City.

The Contractor shall schedule his work in such a manner that once construction begins, it shall be completed in an expeditious manner. Roadway full closures will not be allowed. Contractor shall maintain one lane of traffic open at all the times. Access to residences must be maintained between the hours of 5:00 AM and 10:00 PM. Periodic, infrequent closures of short duration (less than two-hours) must be coordinated with the affected residents. Prior to any closures of accesses, the Contractor shall give adjacent residences 48 hours notice and provide them with a schedule as to when they would have full access restored.

The Contractor shall coordinate limits of operations with the City Engineer or their Representative.

### **13. SAWCUTTING**

No measurement or direct payment will be made for saw or wheel cutting, the cost being considered as included in the price of contract Items. Sawcutting shall be required at all pavement tie-in locations.

### **14. MATERIAL SAFETY DATA SHEETS**

Contractor to supply Material Safety Data Sheets to the City Engineer or their Representative for all items utilized on the project.

### **15. PERMITS**

Permitting Section 107.2 of the MAG Standard Specifications shall be deleted and the following inserted:

It shall be the responsibility of the Contractor to obtain all required permits for construction, dust control, relocation of native plants, erection of signs, traffic signals, etc. including no cost permits from Maricopa County Department of Environmental Services.

City permits will be issued at no charge, but any other permits or fees needed for the work will be paid for by the Contractor.

All haul routes for removals, excavation and dirt moving must be approved by the City of Surprise prior to commencement of operations.

This project is subject to the Maricopa County Air Pollution Control Regulations.

This project is subject to the National Pollutant Discharge Elimination System (NPDES) storm water requirements for construction sites under the Environmental Protection Agency (EPA) General Permit for Arizona.

#### **16. SCHEDULE OF LABOR AND EQUIPMENT**

Contractor to provide a Schedule of Labor and Equipment Costs on a Time and Material Basis with their construction bid. This should include Project Manager, Project Engineer, Superintendent, etc. to the City Representative 2-weeks after notification of award.

#### **17. RECORD DRAWINGS**

Contractor shall provide Record Drawings which shall clearly show all differences between the contract work as drawn and as installed for all work, as well as work added to the contract which is not shown on the Contract Drawings.

The Contractor shall maintain one set of Record Drawings at the job site. These shall be kept legible and shall be available for inspection at all times by the City. Show all changes in the contract work, or work added, on these Record Drawings in a contrasting color (red) including work changed by Addendum or Approved Change Order.

City shall review the Record Drawings on a monthly basis and shall be the sole judge of the acceptability of these drawings. Update Record Drawings showing all as-built construction shall accompany each progress payment submittal.

Upon completion of the project, submit final Record Drawings to the City for final review. Upon receiving approval by the City of the Record Drawings, deliver them together with one set of prints to the City's project manager. Final acceptance of the project will not be given until all information is submitted.

#### **20. CONTRACT TIME**

The Contractor shall complete all project work within 30 working days beginning with the start date specified in the Notice to Proceed.

#### **21. CONSTRUCTION WATER**

##### **General**

The Contractor shall be responsible for requesting and obtaining construction water from City of Surprise and the City of El Mirage.

## **PART C: BID ITEMS**

The following bid Items are numbered to correspond to the Schedule of Bid Items and are included to explain details of work not covered by applicable Standard Specifications and to relate work and pay quantities to the specific Bid Item.

Any Items of work shown on the plans but not covered by bid Items, as shown on the bid schedule, shall be considered incidental to the project.

### **ITEM 1 - MOBILIZATION / DEMOBILIZATION**

**Description:** Mobilization/Demobilization shall be per Section 109.10 of the MAG Standard Specifications.

**Measurement and Payment:** Payment for Mobilization/Demobilization will be paid at the unit price of lump sum for two Mobilization/Demobilizations as specified in the Bid Schedule and shall include all labor and materials.

### **ITEM 2 - AS-BUILTS**

**Description:** As-Builts shall conform to Section 105.2 of the MAG Standard Specifications except as modified as follows:

**General:** The as-built work shall conform to the City of Phoenix Survey Section Standard Requirements for: Staking, As-Builts, Quantity Calculations dated January 1, 1980.

The City of Surprise will provide the Contractor with the original bond plan sheets for use in preparing final As-Builts. Information shall be shown on these originals and then scanned to mylars, depicting the constructed dimensions, elevations, grades and materials including locations of existing underground utilities found during construction.

The Contractor shall exercise extreme care in handling the originals and will return them to the City in like condition. In the event the originals are damaged or determined by the City to be unacceptable, the Contractor shall replace the originals by contacting the Design Engineer of record and have new drawings produced. All costs incurred as the result of replacing the originals shall be borne by the Contractor. The City will be the sole judge in determining whether the As-Builts are acceptable.

The as-built drawings shall be certified by an Arizona Registered Land Surveyor. As-built drawings shall be delivered to the City of Surprise within thirty (30) days from the date of final inspection and acceptance by the City of the work completed under this contract. Final payment will be made only after submitted As-Builts are accepted by the City.

**Measurement and Payment:** As-Builts will be measured as a single complete Item of work and paid at the lump sum price indicated on the Schedule of Bid Items, which amount shall be considered full compensation for the work as described herein. Payment for work under this bid Item will be made when the City accepts the final as-built mylars. Should the Contractor fail to submit acceptable As-Builts within the maximum 30 calendar day period noted above, the City will execute a deduct change order for 10% of the As-Built bid Item total from the contract (or \$2,500.00, whichever is greater) for every 5 working day period that the Contractor fails to provide acceptable As-Builts (not including City review time). If the Contractor fails to submit acceptable As-Builts after the 3<sup>rd</sup> submittal, the City will deduct 50% from the As-Built bid Item total from the contract (or \$10,000.00, whichever is greater) and execute a final change order noting the City's justification for penalizing the Contractor for unacceptable as-built preparation.

### **ITEM 3 - TRAFFIC CONTROL**

**Section 401.1 Description:** of the MAG Standard Specifications shall be modified to include:

It shall be the responsibility of the contractor to develop and implement a traffic control plan for the project. The Contractor shall use the current City of Surprise "Temporary Work Zone Traffic Management Policy" available on the City's website. If there is a discrepancy between the following traffic specifications and the City of Surprise "Temporary Work Zone Traffic Management Policy" the City policy shall govern. Part IV of the "Manual On Uniform Traffic Control Devices For Streets And Highways" (U.S. Department of Transportation, Federal Highway Division) and all revisions thereto, the Traffic Manual from the City of Phoenix and all revisions thereto, shall serve as a guideline in Contractor's application of traffic control.

It shall be the Contractor's responsibility to construct the improvements and make the road available to traffic. The City of Surprise's approval of the Contractor's traffic control method shall not relieve the Contractor of its responsibility to protect the work, Contractor's personnel, or the general public.

**Section 401.2 Traffic Control Devices:** of the MCDOT Supplement to MAG shall be modified to include:

It shall be the Contractor's responsibility to provide, erect and maintain and remove after completion of the work all necessary signs, barricades, temporary traffic signals, barriers, berms, lights, high level warning devices, delineators, and any other required devices, uniformed officers, and flagman, necessary to properly mark and control the construction area for the safe and efficient movement of traffic. Temporary traffic control devices shall be installed prior to the start of any work.

The Contractor shall provide and maintain all necessary signs, barricades and centerline vertical panels for five (5) working days beyond the concrete cure time or acceptance of the project by the Engineer, whichever period is greater.

**Section 401.4 Traffic Control Measures:** of the MCDOT Supplement to MAG shall be modified to include:

The Contractor shall submit a traffic control plan for approval, showing placement of all traffic control devices, including all conflicting signs to be covered/removed or relocated, or other features that may conflict with the placement of temporary signage. This plan shall be professionally drawn on a 24" x 36" reproducible medium, and shall be submitted to the Engineer at the pre-construction meeting unless otherwise directed.

The Contractor must notify the Traffic Engineering Division at phone (623) 222-6150 of all traffic restrictions of City roads and streets. The notification may be by FAX submittal at phone number (623) 222-1701. The Traffic Control Plans (TCP) and notification must be submitted for review at least two working days (48 hours) prior to start of construction. Form TE-1 shall be completed in full and submitted with the TCP to begin review. Construction is not authorized to proceed without the City's approval of the TCP and concurrence that construction can precede with minimum public and traffic impact. Once Form TE-1 is approved and returned, any changes to the TCP or specific information approved in a previous submittal shall require a re-submittal of Form TE-1 and the TCP.

**Measurement and Payment:** Payment Traffic Control will be paid at the unit price of lump sum as specified in the Bid Schedule and shall include all labor and materials.

#### **ITEM 4 - AZPDES PLAN AND NOTIFICATION**

**Description:** AZPDES Plan and Notification shall conform to Section 107.2 of the MAG Standard Specifications except as revised to add:

**General:** The work under this Item shall consist of preparing and providing an Arizona Pollutant Discharge Elimination System (AZPDES) and Notification in accordance with the requirements of the Arizona Department of Environmental Quality's (ADEQ) Construction General Permit.

The contractor shall not locate the wash-down area near washes and shall properly protect the wash-down to prevent discharge into downstream washes. The contractor shall sufficiently contain the equipment wash-down so that all materials washed or connected with the washed materials can be either hauled off the project site and properly disposed of, or satisfactorily treated as approved by the Engineer.

The steps the Contractor shall take includes:

Submission of a Notice of Intent (NOI) that includes general information and location to closest waterbody;

- The development and implementation of a Storm Water Pollution Prevention Plan (SWPPP) with appropriate BMPs to minimize the discharge of pollutants from the site.



The operator (Contractor) must submit the SWPPP along with the NOI if the site is located within 1/4 mile of a unique or impaired waters\*; and

- Submission of a Notice of Termination (NOT) when final stabilization of the site has been achieved as defined in the CGP or when another operator has assumed control of the site.

\* - "Unique waters" are listed in AAC R18-11-112 and "impaired waters" are waters that do not meet designated uses and are listed as such under Section 303 of the Clean Water Act.

The Contractor shall provide copies of all plans and notifications to the Engineer.

**Method of Measurement:** Measurement for AZPDES Plan and Notification shall be on a lump sum basis.

**Basis of Payment:** The accepted quantities for AZPDES Plan and Notification measured as provided above will be paid for at the contract unit price, which price will be full compensation for the work complete in place, as shown on the plans and as specified in the specifications.

## **ITEM 5 - CONSTRUCTION SURVEYING**

**Section 105.8 Construction Stakes, Lines, and Grades:**of the MAG Standard Specification and MCDOT Supplement to MAG shall be deleted and the following inserted:

**General:** The Contractor shall furnish all materials, personnel, and equipment necessary to perform all surveying, staking, laying out of control lines and verifications of the accuracy of all existing control points which are re-delineated in the Contract Documents. The work shall be done under the direction of a Registered Land Surveyor licensed to practice in the State of Arizona.

**Field Books:** The Contractor shall furnish field books to be used for recording survey data and field notes. These books shall be available for inspection by the City at any time and shall become the property of the City upon completion of the work.

**Construction Stakes:** The Contractor shall set construction stakes and marks establishing lines and grades for road work, curbs, gutters, sidewalks, structures, buildings, centerlines for utilities and necessary appurtenances and other work as indicated in the Contract Documents and shall be responsible for their conformance with the plans and specifications.

The stakes shall be established in accordance with the following guidelines which represent the minimum standard and the Contractor shall provide additional stakes and controls necessary to perform the work. The Contractor shall be held responsible for the preservation of all stakes and marks and will replace, at no additional cost to the City, any construction stakes or marks which have been carelessly or willfully destroyed by any party.

**Inspection and Acceptance of Work:** The City reserves the right to make inspections and

random check of any portion of the staking and layout work. If, in the City's opinion, the work is not being performed in a manner that will assure proper control and accuracy of the work, the City will order any or all of the staking and layout work redone at no additional cost.

**Measurement and Payment:** Construction surveying will be measured as a single complete Item of work and paid at the lump sum price indicated on the Schedule of Bid Items, which amount shall be considered full compensation for the work as described herein and required to provide all necessary survey stakes and control.

#### **ITEM 6 – SUBGRADE PREPARATION:**

Preparation of Subgrade: Section 301.2 of MAG Standard Specifications shall be modified to add:

The contractor shall remove the existing aggregate base to the grade shown on the project plans. The contractor has the option to reuse the existing aggregate base in the pavement section or properly dispose of the material. If the contractor decides to reuse the aggregate base in the pavement section the material shall meet the requirements of Section 702 of the MAG Standard Specifications.

#### **ITEM 7 – PAVEMENT SECTION (3.5” ASPHALT CONCRETE ON 7.5” ABC)**

This item shall include the furnishing all the materials, hauling, and placing the aggregate base and asphalt concrete as shown on the project plans. The aggregate base shall be in accordance with the MAG Uniform Standard Specifications Section 310 and the asphalt concrete shall be in accordance with the MAG Uniform Standard Specifications Section 321.

**Measurement:** Measurement for Pavement Section (3.5” Asphalt Concrete on 7.5” ABC) will be made to the nearest square yard for the pavement section constructed.

**Section 310.5 Payment: of the MAG Standard Specifications and MCDOT Supplement to MAG** shall be deleted and the following inserted:

Payment for Pavement Section (3.5” Asphalt Concrete on 7.5” ABC) will be made on the basis of the contract unit price per square yard. The price shall include the aggregate base, tack coat, and asphalt concrete for the quantity as measured above.

#### **ITEM 8 – MILL EXISTING ASPHALT PAVEMENT**

Milling of existing asphalt pavement shall be in accordance with Section 317 of MAG Standard Specifications.

**ITEM 9 - ADJUST SEWER MANHOLE, MAG STD DTL 422**

**ITEM 10 - ADJUST WATER VALVE BOX, MAG STD DTL 391-1**

**Section 345.1 Description:** of the MAG Specifications shall be modified to add:

Adjustment of City of Surprise manhole frames, covers, clean outs, valve boxes, and water meter boxes, if located in the pavement, to finish grade shall be done AFTER placement of the final surface course pavement. However, this does not relieve the Contractor from identifying any manhole frames or valve boxes that are damaged and that need to be replaced prior to paving.

After removal of asphalt pavement in the area of adjustment, and prior to placement of the concrete collar ring around the frame or valve box (as shown on MAG Detail 422), the asphalt pavement in proximity of the adjustment shall be rolled with a self propelled, steel wheel roller.

The concrete collar ring around the frame or valve box shall be circular, and shall be a minimum of eight (8) inches thick, placed flush with the adjacent new pavement surface. At a minimum, concrete shall be MAG 'AA' at all locations. All concrete shall be obtained from plants approved by the Engineer.

The contractor shall remove and replace the cone if necessary to meet the new rim elevation as shown on the project plans. The cone shall meet MAG standards and be approved by the Engineer prior to installation.

A single No. 4 rebar hoop shall be placed in each adjustment collar. The hoop diameter shall be such that its placement is centered between the edge of the manhole frame or valve box, and the outside edge of the concrete collar. The depth of the hoop shall be such that it is centered in the thickness of the collar. Each concrete ring shall be scored radially at quarter-circle points. Score lines shall be 1/4-inch wide by 1/2-inch deep. The concrete collar surface shall be rough broom-finished.

Traffic shall not be allowed on the collars until the concrete has reached a minimum compressive strength of 2500 psi on residential streets, and 3000 psi on collector and major streets. On major streets, the Contractor shall use 'high-early' cement in the concrete mix, approved by the Engineer, to minimize delay in re-opening the street to traffic.

Prior to commencing work on the adjustments, the Contractor shall submit a written adjustment plan and schedule to the Engineer for approval.

Sewer manhole frames and covers shall be matched, kept together, and replaced to their original locations. The Contractor shall remove existing asphalt, chip seal, or other materials from all sewer manhole covers and water valve box lids to be adjusted on this project. The Contractor's method for removal shall be approved by the Engineer prior to actual work. Cover cleaning shall be completed prior to adjustment of frames. Also, all water valve risers shall be thoroughly cleaned to fully expose the valve-operating nut.

Missing covers, as identified by the Engineer, will be supplied by the City of Surprise or the appropriate private utility company when needed for replacement by the Contractor. The contractor must “tie-in” and submits to the City of Peoria Utilities Department all valve and manhole locations along with any missing covers prior to disturbance.

**Section 345.7 Payment:** Delete the first sentence of the MAG Standard Specifications and add the following:

Payment for the adjustment of frames, covers, valve boxes and water meter boxes shall be made on the basis of price bid per each.

There will be no separate measurement or payment for new cones required to adjust sewer manholes. Payment for the new cone if necessary is considered included in the price bid for adjust sewer manhole.

#### **ITEM 11 – VERTICAL CURB AND GUTTER**

#### **ITEM 12 – SIDEWALK**

**Section 340.1 Description:** of the MAG Specifications shall be modified to add:

Vertical curb and gutter, and sidewalk replacement includes removal, disposal and installation of new curb and gutter or sidewalk. Sidewalk replacement will be to the adjacent expansion or construction joint. The actual point of sidewalk matching, and/or termination shall be determined in the field by City of Surprise inspector.

**Section 340.6 Payment:** of the MAG Specifications shall be modified to add:

No additional payment will be made for the removal and disposal of curb and gutter, and sidewalk the cost being considered included in the cost of the item.

#### **ITEM 13 – PAVEMENT MARKER FOR FIRE HYDRANT**

Pavement marker for fire hydrant shall be 2-way retroreflective blue. It shall be ADOT Type BB, 911A-Blue by Fire Lite Amerace Corporation, or approved equal. Pavement marker location shall be installed per plans and per MAG Standard Detail 122.

**Payment:** Payment for Pavement Marker for Fire Hydrants will be by the unit each.

#### **ITEM 14 – CONSTRUCT CURB RAMP DETECTABLE WARNING**

**Section 340.2.1 Detectable Warnings:** of the MAG Standard Specifications is modified to add:

A list of approved truncated dome suppliers for the City of Surprise will be provided on request of the contractor or at the project pre-construction meeting.

Measurement: Detectable warning shall be measured as a complete installed unit each per sidewalk ramp to be retrofitted.

Payment: Detectable warning will be paid per the unit price each for each sidewalk ramp to be retrofitted.

## **ITEM 15 – CONTRACTOR QUALITY CONTROL (TESTING LABORATORY SERVICES)**

**Description:** All material and laboratory testing (Quality Control) shall conform to the City of Surprise Engineering Development Standards.

**General:** All tests which require the services of a laboratory to determine compliance with the contract documents shall be performed by an independent commercial testing laboratory acceptable to the City of Surprise (City). The laboratory shall be staffed with experienced engineers & technicians and shall be properly equipped and fully qualified to perform the tests in accordance with the specified standards.

**A. Testing laboratory services furnished by the Contractor** - Contractor shall retain an experienced accredited materials testing firm to be responsible for all laboratory testing services in connection with concrete materials & mix designs, materials & mix designs for asphaltic concrete & subgrade and gradation & mix designs of bedding & backfill materials. The Contractor's testing firm shall also be responsible for performance of all quality control tests made in the field or laboratory on poured concrete, asphalt densities, fill and backfill materials, in-place field density tests on fills during and after their incorporation in the Work in general conformance with MAG Specifications and as directed by the City.

The Contractor shall not retain any testing laboratory against which the City has reasonable objection, and if at any time during the construction process the services become unacceptable to the City, the City may request in writing that such services be terminated. If the City determines that sufficient cause exists, the Contractor shall terminate the services and engage a different testing laboratory. No change in contract price or time shall be given for such a change.

**Transmittal of Test Reports** - The testing laboratory retained by the Contractor will furnish three (3) copies of a written report of each test performed by laboratory personnel in the field or laboratory. One (1) field copy to the Contractor as quickly as possible after each test is completed. Two (2) copies of each test report will be transmitted to the City at each construction meeting, unless directed otherwise. Reports shall contain records of all testing performed to date, and shall clearly indicate any unacceptable test results and results of subsequent retesting.

**B. Testing Laboratory Services Furnished by the City** - The City shall retain the services of an independent testing firm to perform field quality control tests as needed to validate the results of the firm retained by the Contractor. Such testing shall be performed with minimum interference with construction operations. The City shall pay all charges of testing laboratories for such testing.

The City shall determine the exact time and location of field sampling and testing and may require such additional sampling and testing as necessary to determine that materials and equipment conform with data previously furnished by the Contractor and with the Contract Documents.

Arrangements for delivery of samples and test specimens to the testing laboratory under this section will be made by the City. The testing laboratory shall perform all laboratory tests within a reasonable time consistent with the specified standards and shall furnish a written report of each test.

The Contractor shall furnish all sample materials and cooperate in the sampling and field testing activities, interrupting the Work when necessary. When sampling or testing activities are performed in the field by the City or testing laboratory personnel, the Contractor shall furnish personnel and facilities to assist in the activities.

The City shall not retain any testing laboratory against which the Contractor has reasonable objection, and if at any time during the construction process the services become unacceptable to the Contractor, the Contractor may request in writing that such services be terminated. The request must be supported with evidence of improper testing. If the City determines that sufficient cause exists, the City shall terminate the services and engage a different testing laboratory.

**C.** The cost for testing of material reworked or replaced subsequent to failing test results shall be borne by the Contractor; costs for such retests shall be deducted from monies due for monthly progress payment to the Contractor. The cost of any rework as a result of failing test results will also be borne by the Contractor.

**Measurement and Payment:** Payment for Contractor Quality Control (Testing Laboratory Services) will be paid at the unit price of Lump Sum as specified in the Bid Schedule and shall include all labor, equipment and materials.

## **END OF SPECIAL PROVISIONS**